## **Amendments to the Claims**

## Claims 1-35 (Canceled)

Claim 36 (New) An apparatus for plating a surface of a substrate to fill a wiring recess in the surface with a metal, said apparatus comprising:

- a frame;
- a load/unload unit on which the substrate is held;
- a transfer mechanism disposed in said frame; and
- a plurality of processing units disposed in said frame so as to surround said transfer mechanism.

Claim 37 (New) An apparatus according to claim 36, wherein said transfer mechanism is linearly movable.

Claim 38 (New) An apparatus according to claim 36, wherein said processing units include an electrolytic plating unit for performing an electrolytic plating process.

Claim 39 (New) An apparatus according to claim 38, wherein said processing units include a cleaning and drying device for cleaning and spin drying the substrate after the electrolytic plating process.

Claim 40 (New) An apparatus according to claim 36, wherein said processing units include an electroless plating unit for performing an electroless plating process.

Claim 41 (New) An apparatus according to claim 40, wherein said processing units include a pretreatment unit for performing a pre-treatment process of the electroless plating process.

Claim 42 (New) An apparatus according to claim 40, wherein said electroless plating unit comprises an electroless plating bath having a plating liquid comprising copper sulfate (CuSO<sub>4</sub>·5H<sub>2</sub>O) having a concentration of 100 to 250 g/l.

Claim 43 (New) An apparatus according to claim 40, wherein said electroless plating unit comprises an electroless plating bath having a plating liquid comprising sulfuric acid ( $H_2SO_4$ ) having a concentration of 10 to 100 g/l.

Claim 44 (New) An apparatus according to claim 40, wherein said electroless plating unit comprises an electroless plating bath having a plating liquid comprising chlorine ions having a concentration of 0 to 100 mg/l.

Claim 45 (New) An apparatus according to claim 40, wherein said electroless plating unit comprises an electroless plating bath having a plating liquid comprising at least 0.14 to 70  $\mu$ mol/l of a sulfur compound expressed by a formula

$$X-L-(S)_n-L-X$$

where L is an alkyl group having a carbon number of 1 to 6 which is substituted by a lower alkyl group, a lower alkoxyl group, a hydroxyl group, or a halogen atom; n is an integer; and X is a hydrogen atom, a -SO<sub>3</sub>M group, or a -PO<sub>3</sub>M group; and M indicates a hydrogen atom, an alkali metal atom, or an amino group.

Claim 46 (New) An apparatus according to claim 40, wherein said electroless plating unit comprises an electroless plating bath having a plating liquid comprising at least 10 to 5000 mg/l of a macromolecular compound expressed in a formula

$$R_2$$
  $R_3$   $|$   $R_1$ -(CH<sub>2</sub>CHO)<sub>m</sub>-(CH<sub>2</sub>CHO)<sub>k</sub>-H

where  $R_1$  indicates a residue of a higher alcohol group having a carbon number of 8 to 25, a residue of an alkyl phenol with an alkyl group having a carbon number of 1 to 25, a residue of an

alkyl naphthol with an alkyl group having a carbon number of 1 to 25, a residue of a fatty acid amide having a carbon number of 3 to 22, a residue of an alkylamine having a carbon number of 2 to 4, or a hydroxyl group;  $R_2$  and  $R_3$  indicate a hydrogen atom or a methyl group; and m and k indicate an integer from 1 to 100.

Claim 47 (New) An apparatus according to claim 40, wherein said electroless plating unit comprises an electroless plating bath having a plating liquid comprising at least 0.01 to 100 mg/l of a nitrogen compound.

Claim 48 (New) An apparatus according to claim 36, wherein said frame is rectangular in shape.